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FROM
TELEPHONE

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EXT 2322

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DATE

July 13, 1989

SUBJECT

Boiler Ash EP Tox Results

Steve Smith
Harold Baker
Mike Foresman

REFERENCE

TO

Russ Sackett
Dave Richardson

Attached are the results of the boiler ash EP toxicity test and the regulatory limits. As you can see, metals are well within the acceptable ranges and the ash would not be considered a hazardous waste.

Max

Max W. McCombs

/sdg
Attachment

K

II

Site Q

6

EP Boiler
Toxicity of Ash

MCO 0616792

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Environmental Analysis, Inc.

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MONSANTO COMPANY

PAGE NO : 2
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RESULTS OF ANALYSIS

LOG NUMBER	SAMPLE DESCRIPTION	TEST NAME	RESULTS OF ANALYSIS	UNITS OF EXPRESSION
1016814	8915 BOIL. ASH 5/18c	EP Toxicity	261.24	Meth.
		EP Silver	<0.005	mg Ag
		EP Arsenic	<0.006	mg As
		EP Barium	0.244	mg Ba
		EP Cadmium	0.014	mg Cd
		EP Chromium	0.008	mg Cr
		EP Mercury	<0.0005	mg Hg
		EP Lead	0.016	mg Pb
		EP Selenium	<0.005	mg Se

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§ 261.24

ate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.

(6) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.

(7) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.

(8) It is a forbidden explosive as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53 or a Class B explosive as defined in 49 CFR 173.55.

(b) A solid waste that exhibits the characteristic of reactivity, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number of D003.

§ 261.24 Characteristic of EP toxicity.

(a) A solid waste exhibits the characteristic of EP toxicity if, using the test methods described in Appendix II or equivalent methods approved by the Administrator under the procedures set forth in §§ 260.20 and 260.21, the extract from a representative sample of the waste contains any of the contaminants listed in Table I at a concentration equal to or greater than the respective value given in that Table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering, is considered to be the extract for the purposes of this section.

(b) A solid waste that exhibits the characteristic of EP toxicity, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number specified in Table I which corresponds to the toxic contaminant causing it to be hazardous.

TABLE I—MAXIMUM CONCENTRATION OF CONTAMINANTS FOR CHARACTERISTIC OF EP TOXICITY

EPA Hazardous waste number	Contaminant	Maximum concentration (milligrams per liter)
D004	Arsenic	5.0
D005	Beryllium	100.0
D006	Cadmium	1.0
D007	Chromium	5.0

40 CFR Ch. I (7-1-88 Edition)

TABLE I—MAXIMUM CONCENTRATION OF CONTAMINANTS FOR CHARACTERISTIC OF EP TOXICITY—Continued

EPA Hazardous waste number	Contaminant	Maximum concentration (milligrams per liter)
D008	Lead	5.0
D009	Mercury	0.2
D010	Selenium	1.0
D011	Silver	5.0
D012	Enthal (1,2,3,4,10,10-hexachloro-1,7-epoxy-1,4,4a,5a,7,8a-hexachloro-1,4-endo, 8-endo-4,8-endo-4,8-tetrahydro-2,3-bis (p-methoxyphenyl)isobenzofuran)	0.02
D013	Endrin (1,2,3,4,5,6-hexachloro-2,3-dichlorobenzene, gamma isomer)	0.1
D014	Methoxychlor (1,1,1-Trichloro-2,2-bis (p-methoxyphenyl)ethanol)	10.0
D015	Toxaphene (C ₁₂ H ₈ Cl ₁₀ Technics chlorinated camphene, 67-69 percent camphene)	0.1
D016	2,4-D (2,4-Dichlorophenoxyacetic acid)	10.0
D017	2,4,5-TP Silver (2,4,5-Trichlorophenoxyacetic acid)	1.0

Subpart D—Lists of Hazardous Wastes

§ 261.30 General.

(a) A solid waste is a hazardous waste if it is listed in this subpart, unless it has been excluded from this list under §§ 260.20 and 260.22.

(b) The Administrator will indicate his basis for listing the classes or types of wastes listed in this Subpart by employing one or more of the following Hazard Codes:

Ignitable Waste	_____	1
Corrosive Waste	_____	2
Reactive Waste	_____	3
EP Toxic Waste	_____	4
Acute Hazardous Waste	_____	5
Toxic Waste	_____	6

Appendix VII identifies the constituent which caused the Administrator to list the waste as an EP Toxic Waste (E) or Toxic Waste (T) in §§ 261.31 and 261.32.

(c) Each hazardous waste listed in this subpart is assigned an EPA Hazardous Waste Number which precedes the name of the waste. This number must be used in complying with the